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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON

Letter Circular
LC-715
(Supersedes
LC-633)

January 23, 1943.

CLASSIFICATION OF ACOUSTIC MATERIALS

The following classification of acoustic materials has been prepared to assist in determining the acceptability of materials which manufacturers may propose to furnish under Federal Specifications SS-A-118 and SS-A-111. These specifications are sold by the Government Printing Office, Washington, D. C. for 5 cents each. Inclusion in this list should not be construed as a general approval of a material. The compilation is based upon the sound absorption coefficients given in Letter Circular LC-714, dated January 23, 1943. It includes some materials which are not covered by the Federal Specifications, and others which do not meet all of their requirements. A list of manufacturers, who are willing to certify that their acoustic material will conform to the Federal Specifications, is contained in Letter Circular 256a, Part 10A. This Letter Circular can be obtained from the National Bureau of Standards on request.

Mounting

1. Cemented to gypsum wall board. This is considered equivalent to cementing to plaster or masonry.
2. Nailed on 13/16" x 2" furring 12" o.c. unless otherwise indicated.
3. Metal supports attached to 13/16" x 2" wood furring.
4. Laid directly on laboratory floor.
5. Nailed on 2 x 4's 12" o.c. unless otherwise indicated.
6. Cemented to the floor of the reverberation chamber.
7. Back of sample covered with concrete.
8. Attached to metal suspension system. 4" air space back of tile.
9. Acoustic tile nailed to 13/16" x 2" furring 18" o.c. Space between furring filled with Rockwool.
10. Laid on 2 x 8's, 12" o.c.
11. Laid on 24 gauge sheet iron, nailed to 13/16" x 2" furring 24" o.c.

Fire Resistance

c. Combustible, as defined in Federal Specification SS-A-118.
s. Slow burning, as defined in Federal Specification SS-A-118.
r. Fire retardant, as defined in Federal Specification SS-A-118.
i. Incombustible, as defined in Federal Specification SS-A-118.

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CORRECTION SHEET

1. p. 1, item 10 under Mounting should read "Nailed on 2 x 8's 12" o. c. unless otherwise indicated."

2. pp. 3, 5, 6, 10, 11, and 12, Cushiontone, should be "Type V" and not "Type VIII."

3 . pp. 3, 5, 10, and 11, Cushiontone A-3, weight should be "1.27" and not ".95" as indicated.

4. p. 4, Absorbatone, should be "Type VII" and not "Type Vi."

5. pp. 2, 4, 10, 11, Muffletone, Fissured Finish, should be "Type VI" and not "Type II."

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PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS A (.90 and over) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type A	The Celotex Corporation	1"	9	2.6	r
VII	Absorbex Type F (8 gauge)	" " "	2"	7	4.7	r
V	Acousti-Celotex Type C4*	" " "	1 1/4"	1	1.58	c
V	Acousti-Celotex Type C4*	" " "	1 1/4"	8	1.44	c
V	Acousti-Celotex Type C4*	" " "	1 1/4"	1	1.80	s
V	Acousti-Celotex Type C6*	" " "	1 1/4"	4	1.44	c
IV	Acousti-Metal-B (4 lb density glass mineral wool)	National Gypsum Company	3 1/2"	4	4.44	i
IV	Acousti-Metal-B (6 lb density glass mineral wool)	" " "	3 1/2"	4	5.25	i
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	15/16"	1	1.54	i
I	Akoustolith Tile Grade C	R. Guastavino Company	4"	4	19.5	i
I	Akoustolith Tile Grade C	" " "	5"	4	24.4	i
I	Akoustolith Tile Grade C	" " "	5"	5 (Not Nailed)	24.4	i
I	Akoustolith Tile Grade C	" " "	5"	10 (Not Nailed)	24.4	i
I	Akoustolith Tile Grade D	" " "	4"	4	18.8	i
VIII	Fiberglass OC-9 Board	Owens-Corning Fiberglass Corp.	3/4"	5	.60	-
IV	Sanacoustic Pad, 1 1/4", plus metal facing, pad supports and furring 2 1/2"	Johns-Manville Sales Corp.	-	3	1.2 (pad)	i

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*Coefficient of sound absorption at 2048 cycles less than 3/4 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
	CLASS B (.85 to .89) (Sound Absorption Coefficients at 512 cycles per second)					
Type						
IV	Acousti-Metal, Rockwool pad, plus metal facing & pad supports 1 5/8", plus furring 5 1/4"	National Gypsum Company	5 1/4"	8	0.98 (pad)	i
VI	Acoustone Type D	U. S. Gypsum Company	15/16"	1	1.48	i
VI	Acoustone Type F, mill painted.	" " "	13/16"	1	1.33	i
I	Akoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	i
	CLASS C (.80 to .84) (Sound Absorption Coefficients at 512 cycles per second)					
Type						
VII	Absorbatone	Luse Stevenson Company	1"	10	2.2	r
VII	Absorbex Type A on 1" Absorbex Type F (10 gauge)	The Celotex Corporation	2"	4	-	r
VII	Acoustex Type 70R	National Gypsum Company	1 1/8"	2	2.5	r
VIII	Acoustilite	The Insulite Company	3/4"	2	0.57	c
VI	Acoustone Type F	U. S. Gypsum Company	13/16"	1	1.24	i
VI	Acoustone Type F	" " "	15/16"	1	1.46	i
I	Akoustolith Tile, Sample No. 104	R. Guastavino Company	4"	4	21.2	i
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.83	i
II	Muffletone, Fissured Finish	" " "	1"	1	1.94	i
IV	Perfatone, Rockwool pad, plus metal facing and pad supports 1 5/8", plus furring 8"	U. S. Gypsum Company	-	8	.93 (pad)	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	1	2.33	i
II	Travacoustic	National Gypsum Company	1"	1	2.04	i

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
	CLASS D (.75 to .79) (Sound Absorption Coefficients at 512 cycles per second)					
Type						
VII	Acoustex Type 60R	National Gypsum Company	1"	2	2.07	r
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	1	0.94	c
V	Acousti-Celotex Type C4	" " "	1 1/4"	8	1.93	s
V	Acousti-Celotex Type C5*	" " "	13/16"	2	.86	c
V	Acousti-Celotex C6	" " "	1 1/4"	8	1.65	s
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	c
VI	Acoustone Type D	U. S. Gypsum Company	13/16"	1	1.40	i
VI	Acoustone Type F, mill painted	" " "	11/16"	1	1.13	i
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1 1/4"	5	5.8	i
I	Akoustolith Tile Grade C	" " "	4"	10 (Not Nailed)	19.5	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	i
VIII	Cushiontone	Armstrong Cork Company	7/8"	1	.95	c
VIII	Econacoustic	National Gypsum Company	1"	1	0.71	c
VIII	Fiberlite	The Insulite Company	1/2"	2	.44	c
VIII	Fibracoustic	Johns-Manville Sales Corp.	1"	1	.54	c
VII	Koustex	David E. Kennedy, Inc.	1"	1	2.24	r
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.84	i
VI	Pyrocustic	Mitchell & Smith	13/16"	1	1.1	i
VIII	Quietone*	U. S. Gypsum Company	1"	4	0.81	c
IV	Sanacoustic, Rockwool pad, plus metal facing and pad supports, plus furring 5 1/4"	Johns-Manville Sales Corp.	-	8	1.2 (Pad)	i
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	i
IV	Transite Acoustical Units	Johns-Manville Sales Corp.	1 1/8"	4	3.0	i

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*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS E (.70 to .74) (Sound Absorption Coefficients at 512 cycles per second)				
VI	Absorbatone	Luse Stevenson Company	1"	2	2.4	r
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	r
VII	Acoustex Type 70R	" " "	1 1/8"	1	2.5	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	c
V	Acousti-Celotex Type C9	" " "	3/4"	1	1.06	c
V	Acousti-Celotex Type C9	" " "	3/4"	2	1.06	c
V	Acousti-Celotex Type C9	" " "	3/4"	8	1.00	c
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	13/16"	8	1.31	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
I	Akoustolith Tile Grade D	R. Guastavino Company	4"	10	18.8	i
VIII	Fiberlite	The Insulite Company	1/2"	2	.44	c
VIII	Fibracoustic	Johns-Manville Sales Corp.	1"	2	.54	c
VII	Koustex	David E. Kennedy, Inc.	1 1/4"	1	2.2	r
II	Muffletone, Fissured Finish	The Celotex Corporation	1"	1	1.96	i
VI	Permacoustic	Johns-Manville Sales Corp.	3/4"	1	1.69	i
VIII	Studio Element	" " " "	1"	4	1.47	-
		CLASS F (.65 to .69) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C2	" " "	5/8"	1	.89	s
V	Acousti-Celotex Type C3	" " "	13/16"	8	1.09	c
V	Acousti-Celotex Type C3	" " "	13/16"	1	1.35	s
V	Acousti-Celotex Type C3	" " "	13/16"	8	1.06	s
V	Acousti-Celotex Type C8	" " "	1"	2	1.44	c
V	Acousti-Celotex Type M1	" " "	9/16"	1	1.23	i
V	Acousti-Celotex Type M2	" " "	1"	8	2.32	i
VI	Acoustone Type D*	United States Gypsum Co.	11/16"	1	1.30	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		Class F (.65 to .69) Continued (Sound Absorption Coefficients at 512 cycles per second)				
VI	Acoustone Type F	United States Gypsum Company	11/16"	1	1.15	i
I	Akoustolith Grade B-2	R. Guastavino Company	1 1/2"	4	6.1	i
VIII	Cushiontone A-2*	Armstrong Cork Company	5/8"	2	.91	c
VIII	Cushiontone A-3	" " "	7/8"	2	.95	c
VIII	Econacoustic	National Gypsum Company	1/2"	1 or 2	0.48	c
VI	Kencoustic (cork)	David E. Kennedy, Inc.	1 1/2"	1	.88	s
II	Muffletone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Permacoustic	Johns-Manville Sales Corporation	1"	5 (Not Nailed)	2.33	i
VI	Softone	Industrials, Inc. of Wisconsin	1"	1	2.18	-
		CLASS G (.60 to .64) (Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	r
VII	Acoustex Type 40R	National Gypsum Company	3/4"	2	1.54	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	c
V	Acousti-Celotex Type C2	" " "	5/8"	2	1.07	s
V	Acousti-Celotex Type C5	" " "	13/16"	1	-	c
V	Acousti-Celotex Type C5	" " "	13/16"	8	1.12	s
VI	Acoustone Type D	U. S. Gypsum Company	9/16"	1	1.09	i
VI	Acoustone Type F, mill painted*	" " "	9/16"	1	.97	i
VIII	Cushiontone A-2	Armstrong Cork Co.	5/8"	1	.91	c
VII	Koustex	David E. Kennedy, Inc.	3/4"	1	1.48	r

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*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS H (.55 to .59)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 30R	National Gypsum Company	5/8"	2	1.34	r
VII	Acoustex Type 60R	National Gypsum Company	1"	1	-	r
VI	Acoustone Type F	U. S. Gypsum Company	9/16"	1	.88	i
I	Akoustolith Tile Grade D	R. Guastavino Company	2"	4	-	i
VIII	Cushiontone A-1*	Armstrong Cork Company	1/2"	1	.79	c
VIII	Cushiontone A-1	" " "	1/2"	2	.79	c
VIII	Quietone	U. S. Gypsum Company	1/2"	1	0.47	c
		CLASS I (.50 to .54)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 60R	National Gypsum Company	1"	1	2.31	r
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1/2"	11	.80	r
I	Akoustolith Tile Grade C	R. Guastavino Company	2"	4	10.1	i
VIII	Fiberlite	The Insulite Company	1/2"	1	.41	c
VIII	Kentex	David E. Kennedy, Inc.	1"	1	.78	-
VII	Koustex	" " " "	3/4"	8 (12" air space)	1.48	r
		CLASS J (.45 to .49)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type F (10 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C1	" " "	1/2"	1	.78	c
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1"	4	4.6	i
VI	Kencoustic	David E. Kennedy, Inc.	1"	1	.79	s
II	Trutone, cast on 1/4" gypsum wall board	Acoustone Company, Ltd.	7/8"	4	-	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS K (.40 to .44)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
V	Acousti-Celotex Type Cl	The Celotex Corporation	1/2"	1	.88	s
I	Akoustolith Tile Grade C	R. Guastavino Company	1 1/2"	4	7.5	i
		CLASS L (.35 to .39)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Acoustex Type 40R	National Gypsum Company	3/4"	1	1.75	r
VI	Acoustical Cork "B"	United Cork Companies	1 1/2"	2	.94	s
VIII	Nuwood Bevel Lap Tile	Wood Conversion Co.	1"	6	1.41	c
VIII	Temlok DeLuxe	Armstrong Cork Company	1/2"	4	1.18	c
VIII	Temlok DeLuxe	" " "	7/8"	4	1.19	c
		CLASS M (.30 to .34)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.69	c
		CLASS N (.25 to .29)				
Type		(Sound Absorption Coefficients at 512 cycles per second)				
I	Akoustolith Tile Grade D	R. Guastavino Company	1"	4	-	i
		Class AA (.90 or over)				
Type		Noise Coefficients				
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	4	24.4	i
I	Akoustolith Tile Grade C	" " "	5"	10 (Not nailed)	24.4	i
IV	Acousti-Metal-B (4 lb density glass mineral wool)	National Gypsum Company	3 1/2"	4	4.44	i
IV	Acousti-Metal-B (6 lb density glass mineral wool)	" " "	3 1/2"	4	5.25	i

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS BB (.85) Noise Coefficients				
VII	Absorbatone	Luse Stevenson Company	1"	10	2.2	r
IV	Acousti-Metal, Rockwool pad, plus metal facing and pad supports, 1 5/8" plus furring 5 1/4"	National Gypsum Company	5 1/4"	8	0.98 (pad)	i
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	5	24.4	i.
VIII	Fiberglas OC-9 Board	Owens-Corning Fiberglas Corp.	3/4"	5 (Not nailed)	.60	-
IV	Perfatone, Rockwool pad plus metal facing and pad supports, plus furring 8"	U. S. Gypsum Company	-	8	.93 (pad)	i
IV	Sanacoustic, Rockwool pad plus metal facing and pad supports, plus furring 5 1/4"	Johns-Manville Sales Corp.	-	8	1.2 (pad)	i
		CLASS CC (.80) Noise Coefficients				
VII	Absorbex Type A	The Celotex Corporation	1"	9	2.6	r
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	15/16"	1	1.54	i
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1 1/4"	5	5.8	i
I	Akoustolith Tile Grade C	" " "	4"	10 (Not nailed)	19.5	i
I	Akoustolith Tile Grade C	" " "	4"	4	19.5	i
I	Akoustolith Tile Grade D	" " "	4"	10 (Not nailed)	18.8	i
I	Akoustolith Tile Grade D	" " "	4"	4	18.8	i
I	Akoustolith Tile, Number 104	" " "	4"	4	21.2	i
IV	Sanacoustic, Rockwool pad, plus metal facing, pad supports and furring 2 1/2"	Johns-Manville Sales Corp.	-	3	1.2 (Pad)	i

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS DD (.75) Noise Coefficients				
VII	Absorbex Type A on 1" Absorbex Type F (10 gauge)	The Celotex Corporation	2"	4	-	r
VII	Absorbex Type F (8 gauge)	" " "	2"	7	4.7	r
VIII	Acoustilite	The Insulite Company	3/4"	2	0.57	c
VII	Acoustex Type 70R	National Gypsum Company	1 1/8"	2	2.5	r
V	Acousti-Celotex Type C4	The Celotex Corporation	1 1/4"	8	1.44	c
V	Acousti-Celotex Type C5	" " "	13/16"	2	.86	c
V	Acousti-Celotex Type C6	" " "	1 1/4"	8	1.65	s
VI	Acoustone Type D	U. S. Gypsum Company	15/16"	1	1.48	i
VI	Acoustone Type F	" " "	15/16"	1	1.46	i
VI	Acoustone Type F, mill painted	" " "	13/16"	8	1.31	i
I	Akoustolith Tile Grade B-1	R. Guastavino Co.	2"	5	9.4	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	i
VIII	Fibracoustic	Johns Manville Sales Corp.	1"	2	.54	c
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.83	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	5 (Not nailed)	2.33	i
VI	Permacoustic	" " " "	1"	1	2.33	i
		CLASS EE (.70) Noise Coefficients				
VII	Absorbatone	Luse Stevenson Company	1"	2	2.4	r
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	r
VII	Acoustex Type 60R	" " "	1"	2	2.07	r
VII	Acoustex Type 70R	" " "	1 1/8"	1	2.5	r
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	8	1.09	c
V	Acousti-Celotex Type C3	" " "	13/16"	8	1.06	s
V	Acousti-Celotex Type C4	" " "	1 1/4"	1	1.80	s
V	Acousti-Celotex Type C4	" " "	1 1/4"	8	1.93	s

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS EE (.70) (Continued)				
Type		Noise Coefficients				
V	Acousti-Celotex Type C5	The Celotex Corporation	13/16"	8	1.12	s
V	Acousti-Celotex Type C6	" " "	1 1/4"	4	1.44	c
V	Acousti-Celotex Type C8	" " "	1"	2	1.44	c
V	Acousti-Celotex Type C9	" " "	3/4"	8	1.00	c
V	Acousti-Celotex Type M2	" " "	1"	8	2.32	i
VI	Acoustone Type D	U. S. Gypsum Company	13/16"	1	1.40	i
VI	Acoustone Type F	" " "	13/16"	1	1.24	i
VI	Acoustone Type F, mill painted	" " "	11/16"	1	1.13	i
VI	Acoustone Type F, " "	" " "	13/16"	1	1.33	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
I	Akoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	i
VIII	Cushiontone A-2	Armstrong Cork Company	5/8"	2	.91	c
VIII	Cushiontone A-3	" " "	7/8"	2	.95	c
VIII	Econacoustic	National Gypsum Company	1"	1	0.71	c
VIII	Fibracoustic	Johns-Manville Sales Corp.	1"	1	.54	c
VII	Koustex	David E. Kennedy, Inc.	1 1/4"	1	2.2	r
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.84	i
II	Muffletone, Fissured Finish	" " "	1"	1	1.94	i
VI	Pyrocustic	Mitchell & Smith	13/16"	1	1.1	i
VIII	Studio Element	Johns-Manville Sales Corp.	1"	4	1.47	-
II	Travacoustic	National Gypsum Company	1"	1	2.04	i
		CLASS FF (.65)				
Type		Noise Coefficients				
VII	Acoustex Type 30R	National Gypsum Company	5/8"	2	1.34	r
VII	Acoustex Type 40R	" " "	3/4"	2	1.54	r
VII	Acoustex Type 60R	" " "	1"	1	-	r

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS FF (.65) - Continued. Noise Coefficients				
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	c
V	Acousti-Celotex Type C3	" " "	13/16"	1	0.94	c
V	Acousti-Celotex Type C4	" " "	1 1/4"	1	1.58	c
V	Acousti-Celotex Type C9	" " "	3/4"	2	1.06	c
V	Acousti-Celotex Type M1	" " "	9/16"	1	1.23	i
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	c
VI	Acoustone Type D	U. S. Gypsum Company	11/16"	1	1.30	i
VI	Acoustone Type F	" " "	11/16"	1	1.15	i
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1 1/2"	4	6.1	i
VIII	Cushiontone A-3	Armstrong Cork Company	7/8"	1	.95	c
VIII	Fiberlite, painted by mfr.	The Insulite Company	1/2"	2	.44	c
VII	Koustex	David E. Kennedy, Inc.	3/4"	8 (12" air space)	1.43	r
VII	Koustex	" " " "	1"	1	2.24	r
II	Muffletone, Fissured Finish	The Celotex Corporation	1"	1	1.96	i
VI	Permacoustic	Johns-Manville Sales Corp.	3/4"	1	1.69	i
VIII	Quietone	U. S. Gypsum Company	1"	4	0.81	c
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	i
IV	Transite Acoustical Unit	Johns-Manville Sales Corp.	1 1/8"	4	3.0	i
		CLASS GG (.60) Noise Coefficients				
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	r
VII	Acoustex Type 60R	National Gypsum Company	1"	1	2.31	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	c
V	Acousti-Celotex Type C2	" " "	5/8"	1	.89	s
V	Acousti-Celotex Type C2	" " "	5/8"	2	1.07	s
V	Acousti-Celotex Type C3	" " "	13/16"	1	1.35	s

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118 Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS GG (.60) - Continued Noise Coefficients				
V	Acousti-Celotex Type C9	The Celotex Corporation	3/4"	1	1.06	c
VI	Acoustone Type D	U. S. Gypsum Company	9/16"	1	1.09	i
VI	Acoustone Type F	" " "	9/16"	1	.88	i
VI	Acoustone Type F, mill painted	" " "	9/16"	1	.97	i
VIII	Air-Acoustic Sheets	Johns Manville Sales Corp.	1/2"	11	.80	r
VIII	Cushiontone A-1	Armstrong Cork Company	1/2"	2	.79	c
VIII	Cushiontone A-2	" " "	5/8"	1	.91	c
VIII	Econacoustic	National Gypsum Company	1/2"	1 or 2	0.48	c
VII	Koustex	David E. Kennedy, Inc.	3/4"	1	1.48	r
II	Muffletone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Softone	Industrials, Inc. of Wisconsin	1"	1	2.18	-
		CLASS HH (.55) Noise Coefficients				
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C5	" " "	13/16"	1	-	c
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1"	4	4.6	i
I	Akoustolith Tile Grade C	" " "	2"	4	10.1	i
I	Akoustolith Tile Grade D	" " "	2"	4	-	i
VIII	Cushiontone A-1	Armstrong Cork Company	1/2"	1	.79	c
VIII	Fiberlite, painted by manufacturer	The Insulite Company	1/2"	1	.41	c
VIII	Quietone	U. S. Gypsum Company	1/2"	1	0.47	c
II	Trutone Tile, cast on 1/4" gypsum wallboard.	Acoustone Company, Ltd.	7/8"	4	-	i

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
		CLASS II (.50)				
Type		Noise Coefficients				
VII	Acoustex Type 40R	National Gypsum Company	3/4"	1	1.75	r
I	Akoustolith Tile Grade C	R. Guastavino Company	1 1/2"	4	7.5	i
VI	Kencoustic (cork)	David E. Kennedy, Inc.	1 1/2"	1	.88	s
		CLASS JJ (.45)				
Type		Noise Coefficients				
VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VII	Absorbex Type F (10 gauge)	" " "	1"	2	-	r
V	Acousti-Celotex Type C1	" " "	1/2"	1	.78	c
VIII	Kentex	David E. Kennedy, Inc.	1"	1	.78	-
		CLASS KK (.40)				
Type		Noise Coefficients				
V	Acousti-Celotex Type C1	The Celotex Corporation	1/2"	1	.88	s
I	Akoustolith Tile Grade D	R. Guastavino Company	1"	4	-	i
VI	Acoustical Cork "B"	United Cork Companies	1 1/2"	2	.94	s
VI	Kencoustic	David E. Kennedy, Inc.	1"	1	.79	s
VIII	Temlok DeLuxe	Armstrong Cork Company	7/8"	4	1.19	c
		CLASS LL (.35)				
Type		Noise Coefficients				
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1"	6	1.41	c
		CLASS MM (.30)				
Type		Noise Coefficients				
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.69	c
VIII	Temlok DeLuxe	Armstrong Cork Company	1/2"	4	1.18	c

Table 2

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111 Type	Material	Manufacturer	Thickness
	CLASS A (.90 or over) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Keasbey & Mattison Company	3/4"
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Keasbey & Mattison Company	1/2"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board, finished with roller. Not painted.	Keasbey & Mattison Company	1 1/2"
III	Spray-Acoustic Type I, applied with air gun on gypsum wall board, finished with roller.	Sprayo-Flake Company	1 1/8"
	CLASS B (.85 to .89) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Keasbey & Mattison Company	3/8"
III	Spray-Acoustic Type X, applied with air gun on metal lath, finished with roller.	Sprayo-Flake Company	5/8"
	CLASS E (.70 to .74) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board. Not painted.	Keasbey & Mattison Co.	3/4"
	CLASS F (.65 to .69) Sound Absorption Coefficients (at 512 cycles per second)		
I	Macoustic Plaster, trowel finish	National Gypsum Company	3/4"
I	Stucoustic Plaster, Type A. D.	California Stucco Products of New England, Inc.	3/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111 Type	Material	Manufacturer	Thickness
	CLASS G (.60 to .64) Sound Absorption Coefficients (at 512 cycles per second)		
I	Sabinite M	U. S. Gypsum Company	3/4"
	CLASS H (.55 to .59) Sound Absorption Coefficients (at 512 cycles per second)		
I	Sabinite Plaster A	U. S. Gypsum Company	3/4"
	CLASS I (.50 to.54) Sound Absorption Coefficients (at 512 cycles per second)		
I	Acoustic Plaster	Kelley Island Lime and Transport Company	1/2"
I	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	5/8"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board	Keasbey & Mattison Company	5/8"
I	Maccustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Reverbclite Plaster (Regular)	The Celotex Corporation	1/2"
I	Stucoustic Plaster	California Stucco Products of New England, Inc.	1/2"
	CLASS J (.45 to .49) Sound Absorption Coefficients (at 512 cycles per second)		
I	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	1/2"
I	Hushkote Acoustic Plaster	" " " "	3/4"
I	Old Newark Acoustic Plaster	Newark Plaster Company	1/2"
I	Sabinite M	U. S. Gypsum Company	1/2"
I	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Co.	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
	CLASS K (.40 to .44) Sound Absorption Coefficients (at 512 cycles per second)		
Type			
I	Acoustic Plaster	Hollywood Stucco Products, Inc.	1/2"
I	Calacoustic Plaster	Pacific Portland Cement Co.	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Plastacoustic	R. Guastavino Company	1/2"
I	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
I	Sabinite Plaster F	U. S. Gypsum Company	1/2"
	CLASS L (.35 to .39) Sound Absorption Coefficients (at 512 cycles per second)		
I	Sabinite Plaster A	U. S. Gypsum Company	1/2"
	CLASS M (.30 to .34) Sound Absorption Coefficients (at 512 cycles per second)		
I	Dodson Acoustic Plaster	The Dodson Manufacturing Co.	3/4"
	CLASS AA (.90) Noise coefficients		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Keasbey & Mattison Company	3/4"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Keasbey & Mattison Company	1 1/2"
III	Spray-Acoustic Type X, applied with air gun on metal lath.	Sprayo-Flake Company	5/8"

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ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
	CLASS BB (.85) Noise Coefficients		
Type			
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Keasbey & Mattison Company	3/8"
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Keasbey & Mattison Company	1/2"
III	Spray-Acoustic Type X, applied with air gun on gypsum wall board.	Sprayo-Flake Company	1 1/8"
	CLASS EE (.70) Noise Coefficients		
Type			
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Keasbey & Mattison Company	3/4"
	CLASS GG (.60) Noise Coefficients		
Type			
I	Acoustic Plaster	Kelley Island Lime & Transport Co.	1/2"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Keasbey & Mattison Company	5/8"
I	Sabinite Plaster A	U. S. Gypsum Company	3/4"
I	Sabinite Plaster M	" " "	1/2" or 3/4"
I	Stucoustic Plaster	California Stucco Products of New England, Inc.	1/2"
	CLASS HH (.55) Noise Coefficients		
Type			
I	Acoustic Plaster	Hollywood Stucco Products, Inc.	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Macoustic Plaster, trowel finish	" " "	3/4"
I	Old Newark Acoustic Plaster	Newark Plaster Company	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
	CLASS HH (.55) - Continued		
Type	Noise Coefficients		
I	Plastacoustic	R. Guastavino Company	1/2"
I	Reverbolite Plaster (Regular)	The Celotex Corporation	1/2"
I	Sabinite Plaster A	U. S. Gypsum Company	1/2"
I	Sabinite Plaster F	" " "	1/2"
I	Stucoustic Plaster Type A. D.	California Stucco Products of New England, Inc.	3/4"
	CLASS II (.50)		
Type	Noise Coefficients		
I	Calacoustic Plaster	Pacific Portland Cement Company	1/2"
I	Hushkote Acoustic Plaster	Cleveland Gypsum Company	1/2"
I	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Company	1/2"
	CLASS JJ (.45)		
Type	Noise Coefficients		
I	Hushkote Acoustic Plaster	Cleveland Gypsum Company	5/8"
I	Hushkote Acoustic Plaster	" " "	3/4"
I	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
	CLASS KK (.40)		
Type	Noise Coefficients		
I	Dodson Acoustic Plaster	The Dodson Manufacturing Company	3/4"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"

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